

Section II

AIRDROP SUPPLIES AND EQUIPMENT

2-6. Commonly Used Items

Items commonly used for rigging platform loads are described in this section. Each rigging manual in the FM 10-500/TO 13C7 series contains one or more tables of equipment required. These tables list the NSN, item, and quantity of each item needed to prepare and rig the load covered in the manual. Standard airdrop hardware items are shown in Figure 2-2. Standard airdrop straps and canvas items are shown in Figure 2-3. Some textile, wood, and miscellaneous items are described below.

a. Textile Items. The most common textile items and their uses are as follows:

(1) Type III nylon cord (often referred to as 550 cord) is used to make safety ties and to hold items in place. It has a tensile strength of 550 pounds.

(2) One-half-inch tubular nylon webbing is used to secure items during airdrop and to tie the deadman's safety tie. It has a tensile strength of 1,000 pounds.

(3) Type I, 1/4-inch cotton webbing is used to make many of the needed safety ties used when a platform load is rigged. It has a tensile strength of 80 pounds.

(4) Five-eighths-inch or 9/16-inch tubular nylon webbing may be used for the deadman's safety tie and parachute clustering ties in place of 1/2-inch tubular nylon webbing.

b. Wood Items. Wood items used when platform loads are rigged for airdrop are made locally. Details for building these wood items are in the rigging manual.

Note: Plywood should be grade AC or AD.

c. Miscellaneous Items. Miscellaneous items that may be used when a platform load is rigged

are discussed below. The proper use of these items will be covered in detail in this manual or in other FM 10-500/ TO 13C7 series manuals.

(1) Adhesive tape (masking tape), 2 inches wide, is used to secure the folds of excess webbing. It is also used to protect honeycomb from being cut by type III nylon cord and to hold padding in place. It can be used for other tasks also.

(2) Type IV, cloth-backed adhesive tape, 2 inches wide, is used to wrap extraction lines routed through the ACB on LAPE loads. It may also be used to protect honeycomb from being cut by type III nylon cord and to hold padding in place. It may be used for other tasks.

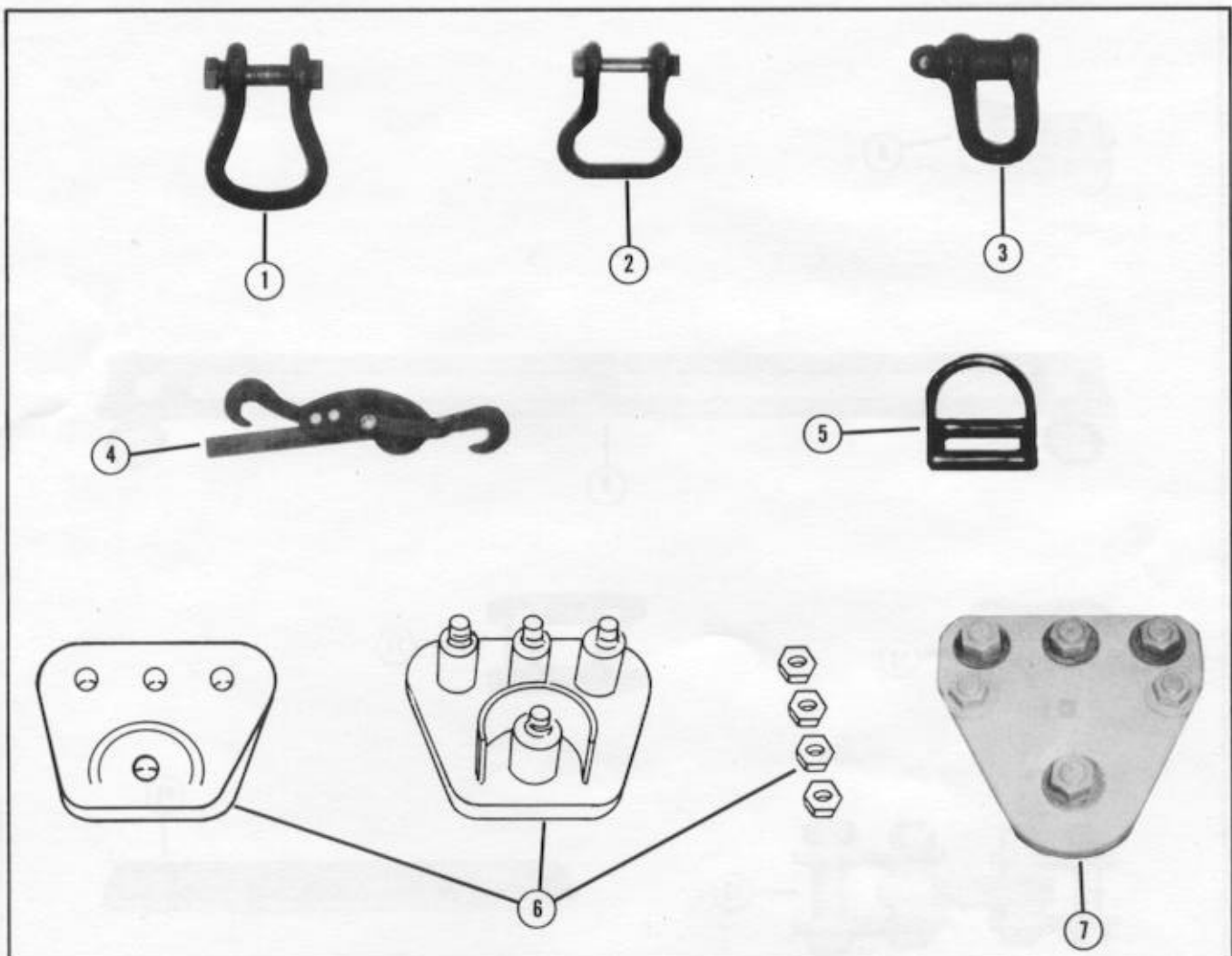
Note: The tape will not be used to secure folds of extraction lines, extraction slings/bridles, and deployment lines.

(3) Cellulose wadding and felt sheets have many uses. They may be used to pad fragile items, to prevent sharp edges from cutting, and to protect slings during airdrop.

(4) Energy-dissipating pads (honeycomb) are used to absorb the landing shock. Honeycomb is also used to level, pad, and fill empty spaces.

2-7. Inspection and Strength of Items

Canvas, metal, webbing, and wood items are inspected according to TM 10-1670-296-20&P. Strength ratings for the items in this section and for other airdrop items are listed in TM10-1670-297-20&P.



- ① The large suspension clevis is used in forming suspension or extraction systems, grouping bridles, and attaching riser extensions to the G-11A, G-11B, or G-11C cargo parachute. It may be used on the type V platform for platform suspension or installed as a LAPE bridle. The clevis is used in other places, as indicated in the specific rigging manual.
- ② The medium suspension clevis is used to attach riser extensions to the G-12D cargo parachute. Other uses are given in the specific rigging manual.
- ③ The screw-pin clevis is used with a sleeve in a manner similar to a large suspension clevis.
- ④ The 10,000-pound load binder is used to hook two heavy-duty D-rings together or to hook a D-ring to a load tiedown clevis on the airdrop platform.
- ⑤ The heavy-duty D-ring is used with a 15-foot tiedown strap when drop items are prepared for airdrop. The D-ring is also used with lengths of type X nylon webbing when LAPE loads are lashed to the airdrop platform.
- ⑥ The four-point link assembly is used to attach the extraction lines on a LAPE load and to cluster two 28-foot cargo extraction parachutes on a low-velocity load.
- ⑦ The extraction clevis is used to attach the extraction lines and rope on a type V platform LAPE load.

Figure 2-2. Hardware items used for rigging platform loads

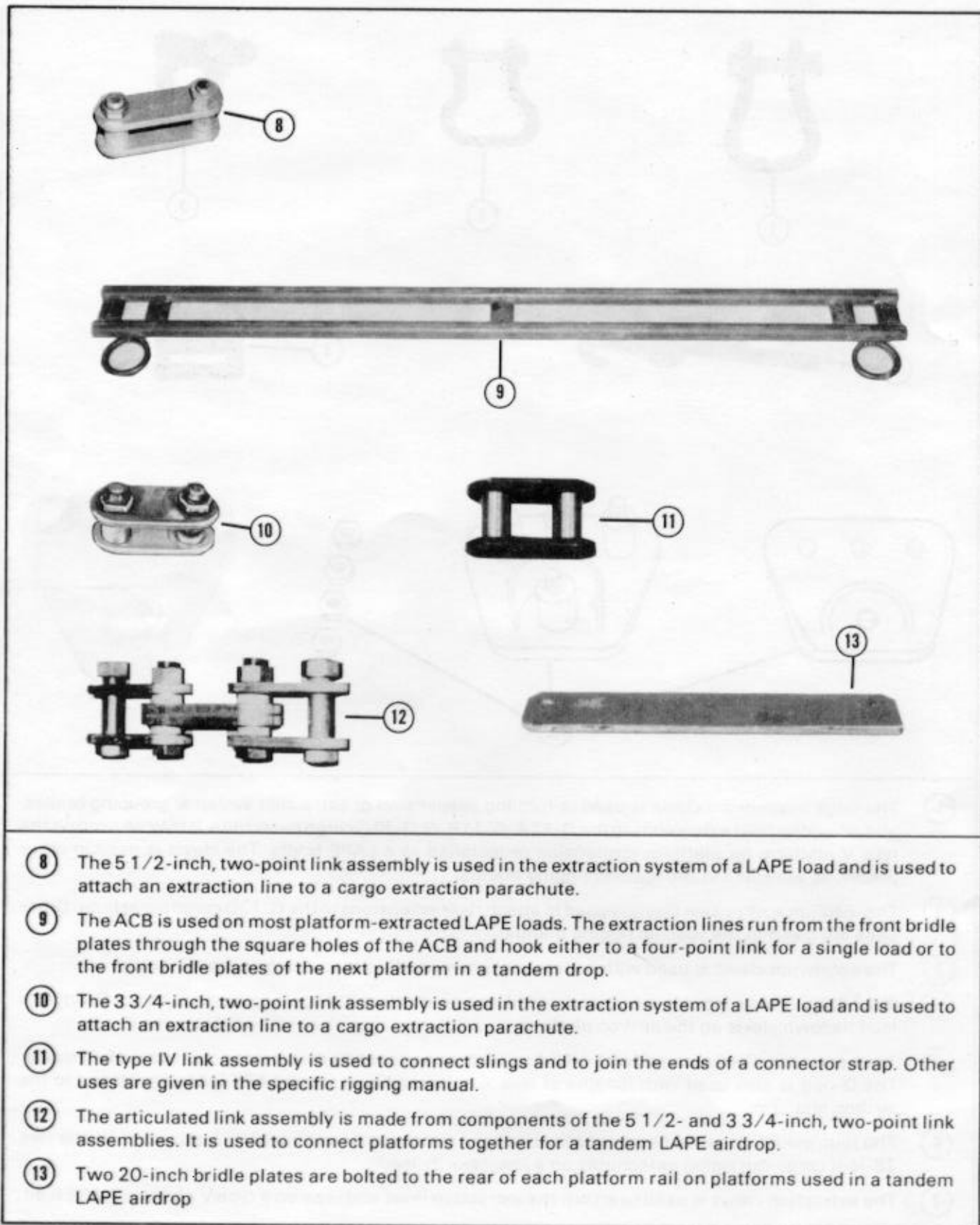


Figure 2-2. Hardware items used for rigging platform loads (continued)

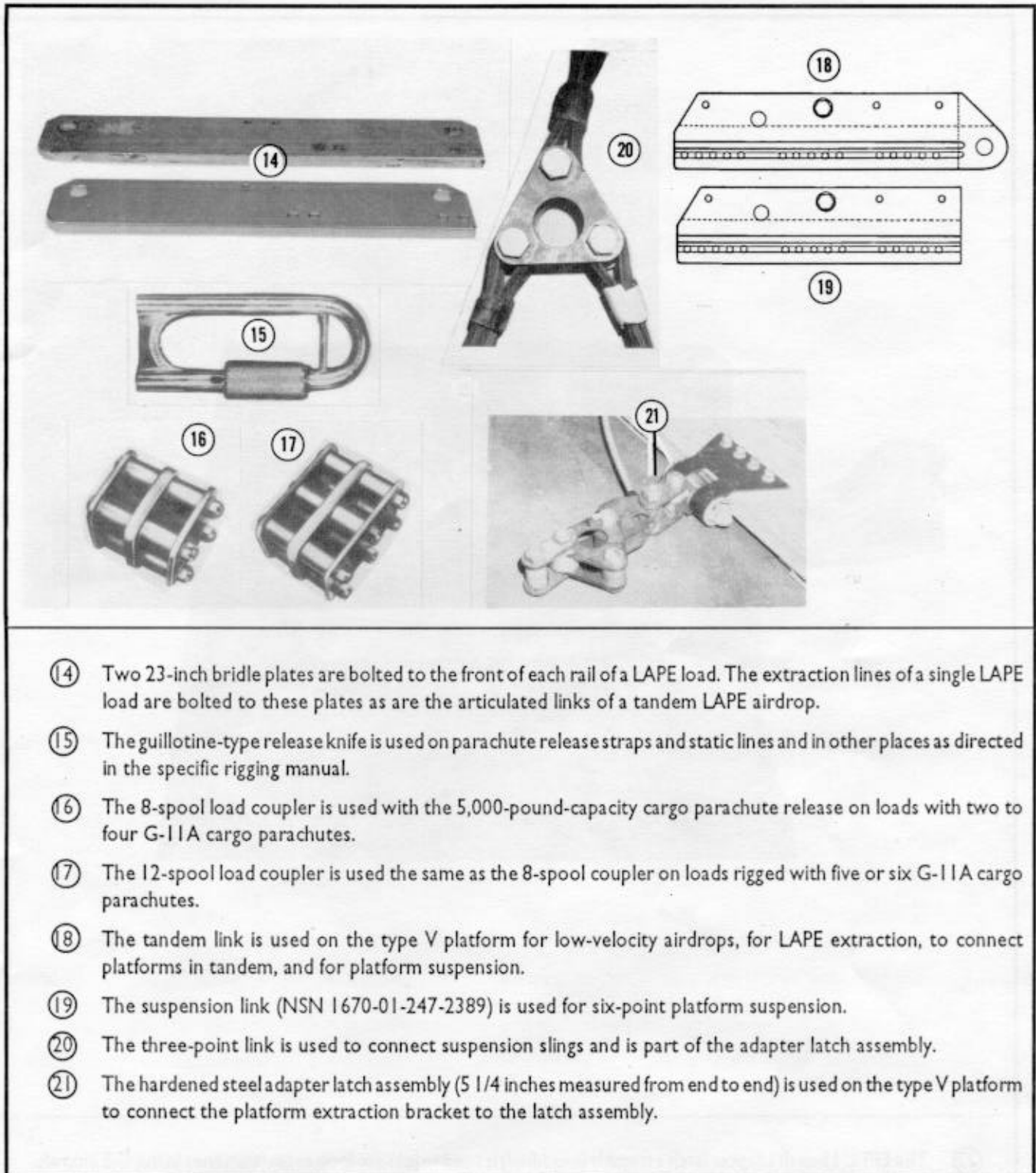
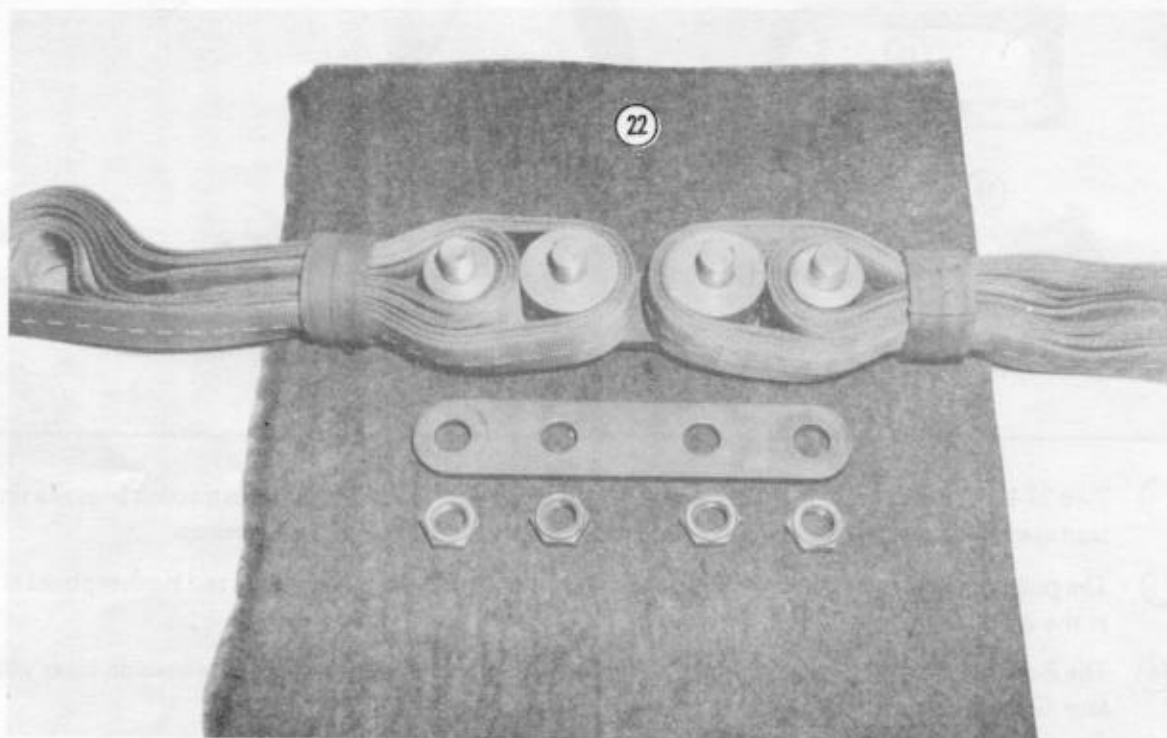


Figure 2-2. Hardware items used for rigging platform loads (continued)



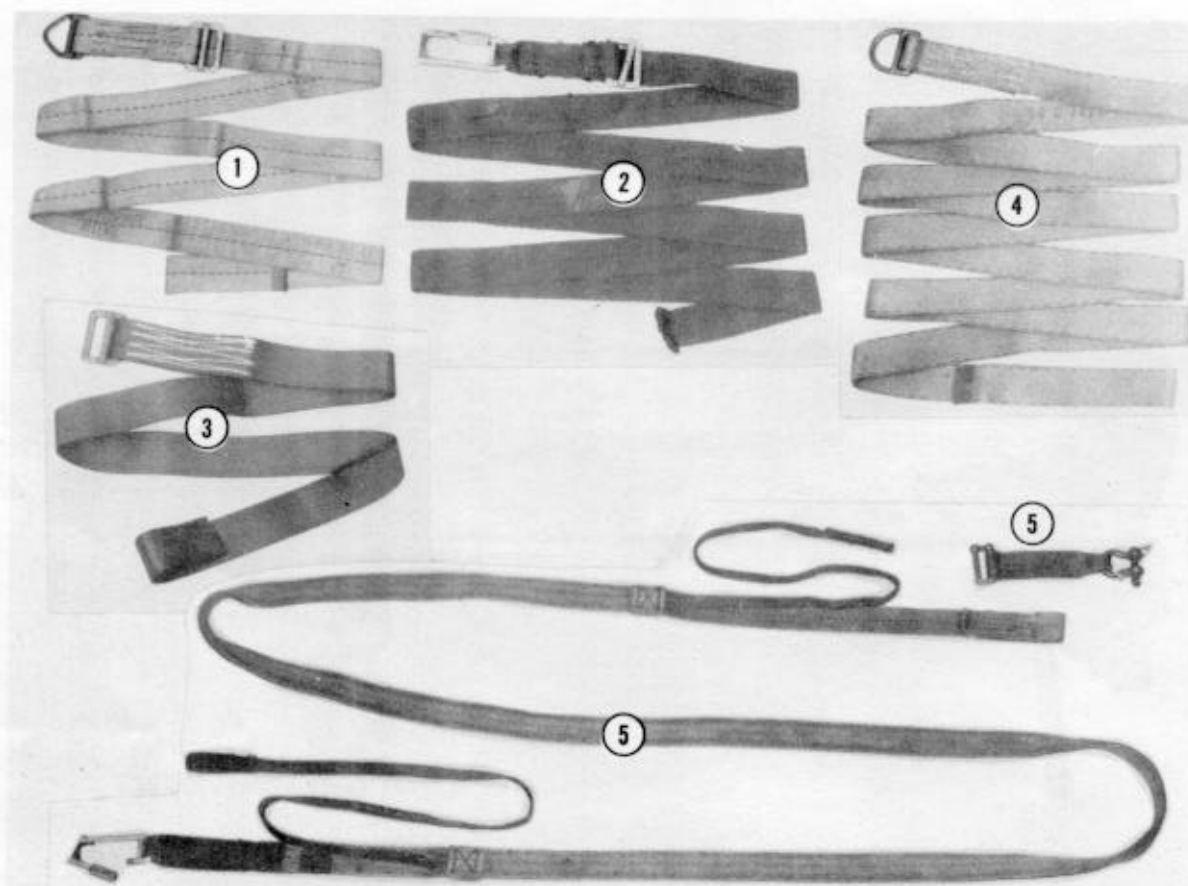
- ②② The EFTC 11-inch adapter latch assembly (modified) is used to join six-loop extraction lines in the C-5 aircraft.

Figure 2-2. Hardware items used for rigging platform loads (continued)



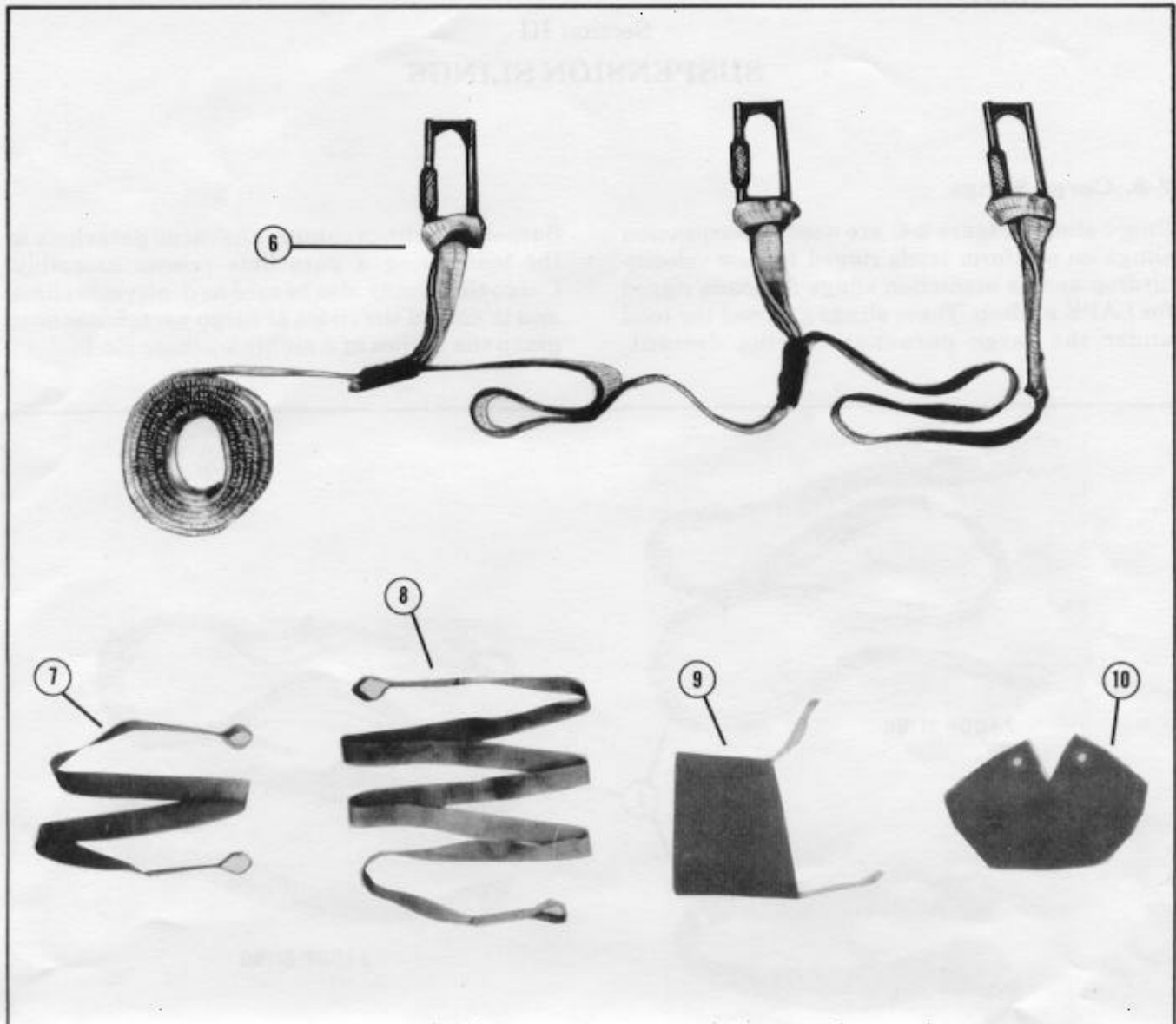
- ②③ The EFTC actuator arm extension pin is used in the C-5 aircraft. The pin rides on top of the left rail.

Figure 2-2. Hardware items used for rigging platform loads (continued)



- ① The V-knife parachute release strap is used to cut one parachute restraint strap on a low-velocity airdrop load.
- ② The guillotine-knife parachute release strap is used to cut one parachute restraint strap on a low-velocity airdrop load.
- ③ The 60-inch, nylon webbing shear strap is used to hold the ACB in place before the bar is lashed to the platform. This strap may be used in other ways as given in the specific rigging manual.
- ④ The 15-foot tie-down strap is used to lash an airdrop load to the platform. Other uses of this strap are covered in the specific rigging manual.
- ⑤ Two 15-foot breakaway static line assemblies are used as components of the SL/CS extraction system.

Figure 2-3. Straps and canvas items used for rigging platform loads



- ⑥ The multicut parachute release strap is used to cut one to three parachute restraint straps on a platform load rigged for low-velocity airdrop. The strap comes with three guillotine-type release knives, but the knives that are not being used are removed. This release strap is always used in pairs.
- ⑦ The 60-inch, type X nylon webbing connector strap is used as part of the SL/CS when a 15-foot cargo extraction parachute is used to rig the SL/CS on a low-velocity airdrop platform load.
- ⑧ The 120-inch, type X nylon webbing connector strap is used as a part of the SL/CS when a 22-foot or 28-foot, light-duty cargo extraction parachute is used to rig the SL/CS on a low-velocity airdrop platform load.
- ⑨ The link cover is used to cover a type IV link assembly, except when the link is used to join the ends of a connector strap and extraction line to the adapter web of a 15-foot cargo extraction parachute.
- ⑩ The large clevis cover is used on the large suspension clevis when the clevis is used to join the risers of a cargo parachute to a riser extension.

Figure 2-3. Straps and canvas items used for rigging platform loads (continued)